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(54) DISK CHANGER

(57)Abstract:

PURPOSE: To position a disk in sequential synchronization with its movement and selection only by rotating an unequal lead screw by moving a tray meshed with the screw in rotation parallel to the axial direction and simultaneously moving the screw itself in the reverse direction to the moving direction of the tray.

CONSTITUTION: A disk selecting space opening and closing device 3 has the unequal lead screw 7 with a spiral pitch in the middle is larger than a spiral pitch at the upper and lower ends while its shaft end is opened to be meshed with the tray 1. The tray 1 meshed with this screw 7 is parallel moved by its rotation, and simultaneously, the screw 7 itself is moved in the reverse direction to the moving direction of the tray 1. By repeating such movement of the tray 1 successively, an optional disk is selected out of piled disks, and its upper side and lower side are provided with spaces for inserting a pickup 5 and a clamer respectively. Then, the disk movement and selection can be carried out only by rotating the unequal lead screw.

